



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,836	02/26/2002	Frederick L. Jordan	ORYXE.025A	3050

20995 7590 09/29/2003

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER

TOOMER, CEPHIA D

ART UNIT	PAPER NUMBER
----------	--------------

1714

DATE MAILED: 09/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/084,836

Applicant(s)

JORDAN, FREDERICK L.

Examiner

Cephia D. Toomer

Art Unit

1714

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 6) ☐ Other: _____.

DETAILED ACTION

Specification

1. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Double Patenting

2. Claims 1-13, 17-34 and 34-48 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 16, 17, 19, 20, 23 and 24 of copending Application No. 10/084602. Although the conflicting claims are not identical, they are not patentably distinct from each other because the resid fuel of the present invention is encompassed by the generic hydrocarbon fuel of the copending application. Also, the ranges of the components overlap.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

3. Claims 1-16 and 26-37 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6, 21-30 and 33-36 of copending Application No. 10/084579. Although the conflicting claims are not identical, they are not patentably distinct from each other because the scope of the claims is the same and the additive is disclosed in the fuel application. Applicant's additive claims are open to the addition of the fuel. Furthermore, the use of

Art Unit: 1714

the fuel in conjunction with the additive would infringe the claims of the additive and the use of the present additive in the fuel would infringe the fuel composition.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 4-6, 9-11, 13, 24-28, 30, 33 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Jordan (US 5,826,369).

Jordan teaches a carbonaceous fuel composition comprising a fuel additive of beta-carotene, chlorophyll, ethoxylated castor oil, jojoba oil and alkyl nitrates (see abstract; col. 2, lines 11-22). The carbonaceous fuel includes gasoline, diesel fuel, heavy fuel oil (resid), etc. (see col. 2, lines 23-43). The fuel additive may be diluted with a solvent such as gasoline, toluene, diesel fuel and alcohols (see col. 2, line 60 through col. 3, lines 1-6). Jordan teaches that the ethoxylated castor oil provides enhanced combustion characteristics and reductions in pollutant emissions.

3. Accordingly, Jordan teaching all the limitations of the claims anticipates the claims.

4. Claims 1 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Schur (US 5,160,506).

Schur teaches a fuel composition comprising a liquid fuel mixture, a vegetable oil, an ageing inhibitor, an oxidation inhibitor and other conventional additives (see col. 1, lines 27-33; col. 2, lines 30-39,45-68).

Accordingly, Schur teaching all the limitations of the claims, anticipates the claims.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 12, 43, 45, 47 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jordan (US 5,826,369).

Jordan has been discussed above. Jordan differs from the claim in that he does not specifically teach that the alcohol solvent is methanol or ethanol. However, it would have been obvious to one of ordinary skill in the art to have selected these alcohol because Jordan broadly teaches alcohols, which encompasses methanol and ethanol, and Jordan teaches that any organic solvent may be used provided that it does not adversely increase pollutant emission levels.

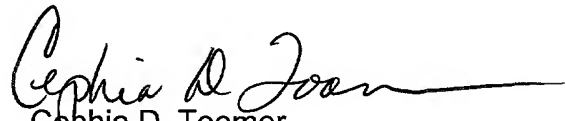
Jordan also fails to teach the claimed proportions of the components in the method claims. However, it would have been obvious to one of ordinary skill in the art to optimize these result effective variables because Jordan teaches the ratio of these components and he shows that the range may vary considerably in relation to the fuel and the combustion conditions. See col. 3, lines 14-21.

7. The prior art made of record and not relied upon is cited for teaching the general state of the art and is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cephia D. Toomer whose telephone number is 703-308-2509. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 703-306-2777. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.


Cephia D. Toomer
Primary Examiner
Art Unit 1714

10/084836\091703